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In the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application:

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- (Original) A method of selecting a tester design comprising:
 selecting one or more design alternatives,
 constructing a classifier for each alternative using sample data,
 construction Operating Characteristics curves for each classifier, and
 selecting a design alternative based on the Operating Characteristic curves.
- 2. (Original) The method of Claim 1 where the step of selecting a design alternative further comprises:
- weighting each Operating Characteristics curve using cost constraints to form
 15 a result, and

selecting the Operating Characteristics curve with the minimal result.

(Original) The method of Claim 1 where classifiers for each alternative are constructed from sample data gathered through data acquisition.

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- 4. (Original) The method of Claim 3 where data acquisition uses a factorial design when more than one alternative is present.
- 5. (Original) The method of Claim 3 where data acquisition uses a one-way layout when only one alternative is present.
 - 6. (Currently Amended) A computer readable medium that includes executable instructions for <u>selecting a tester design processing sequence number informationused in communications protocols</u>, said computer readable medium comprising:

30 code for selecting one or more design alternatives, code for constructing a classifier for each alternative using sample data, code for construction Operating Characteristics curves for each classifier, and code for selecting a design alternative based on the Operating Characteristic curves.

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7. (Original) The computer readable medium of Claim 6 where the code for selecting a design alternative further comprises:

code for weighting each Operating Characteristics curve using cost constraints

5 to form a result, and

code for selecting the Operating Characteristics curve with the minimal result.

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